

United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,818	10/01/2001	Toshiki Taguchi	Q66451	3989
75	90 04/25/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			EXAMINER	
			THOMPSON, CAMIE S	
			ART UNIT	PAPER NUMBER
		1774		
			DATE MAILED: 04/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) 09/965.818 TAGUCHI, TOSHIKI Office Action Summary Examiner Art Unit 1774 Camie S Thompson -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on . 1)□ 2b) This action is non-final. 2a) □ This action is FINAL. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered. The specification has the reference, Applied Physics Letters, 51, 913 (1987) listed on page 1.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6, 9-14 and 17-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Mori et al., U.S. Patent Number 5,281,489.

Mori discloses an electroluminescent element that may find application in various types of display devices. Mori also discloses that the electroluminescent element comprises and anode and a cathode and disposed there between an organic layer wherein the organic layer comprises

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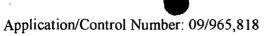
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various compounds that read on applicant's instant claims 1-4, 9-12 and 17-24 (see abstract, column 5, lines 1-67 and column 29, lines 61-67). For example, see compound (5) in column 5. Additionally, the reference discloses that the amount of the organic compound in the luminescent layer is preferably 0.01 to 20 parts by weight as per instant claims 5 and 13 (see column 26, lines 63-68). The Mori reference also discloses that the luminescent layer is formed from a solution by coating method as per instant claims 6 and 14 (see column 27, lines 15-20).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 7-8, 9 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori et al., U.S. 5,281,489 in view of Baldo et al., Journal of Applied Physics Letters, Volume 75, Number 1.

Mori discloses an electroluminescent element that may find application in various types of display devices. Mori also discloses that the electroluminescent element comprises and anode and a cathode and disposed there between an organic layer wherein the organic layer comprises various compounds that read on applicant's instant claims 1 and 9 (see abstract, column 5, lines 1-67 and column 29, lines 61-67). For example, see compound (5) in column 5.



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Mori does not disclose that the organic layer comprises a light emitting material that uses a triplet exciton for light emission wherein the light-emitting material is an iridium complex. Baldo teaches an organic light-emitting device that uses a triplet exciton for light emission. In addition, Baldo employs tris(2-phenylpyridine) iridium as the light-emitting material as per instant claims 7-8 and 15-16 (see entire document). Triplet emission affects the power efficiency of the organic light-emitting device. Therefore, it would have been obvious for one of ordinary skill in the art to use a triplet exciton wherein the light-emitting material is an iridium complex so as to achieve peak quantum and power efficiencies of approximately 10% (see page 1 paragraphs 1 and 2).

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (703) 305-4488. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly, can be reached at (703) 308-0449. The fax phone numbers for the Group are (703) 872-9310 {before finals} and (703) 872-9311 {after finals}.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

CYNTHIA H. KELLY SUPERVISOFY FATENT EXAMINER TECHNOLOGY CENTER 1700

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